CMPG223 Distance group 9  
CMPG 223  
ODL Bsc(IT)  
Assignment 1  
Title

CMPG 223

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| --- | --- |
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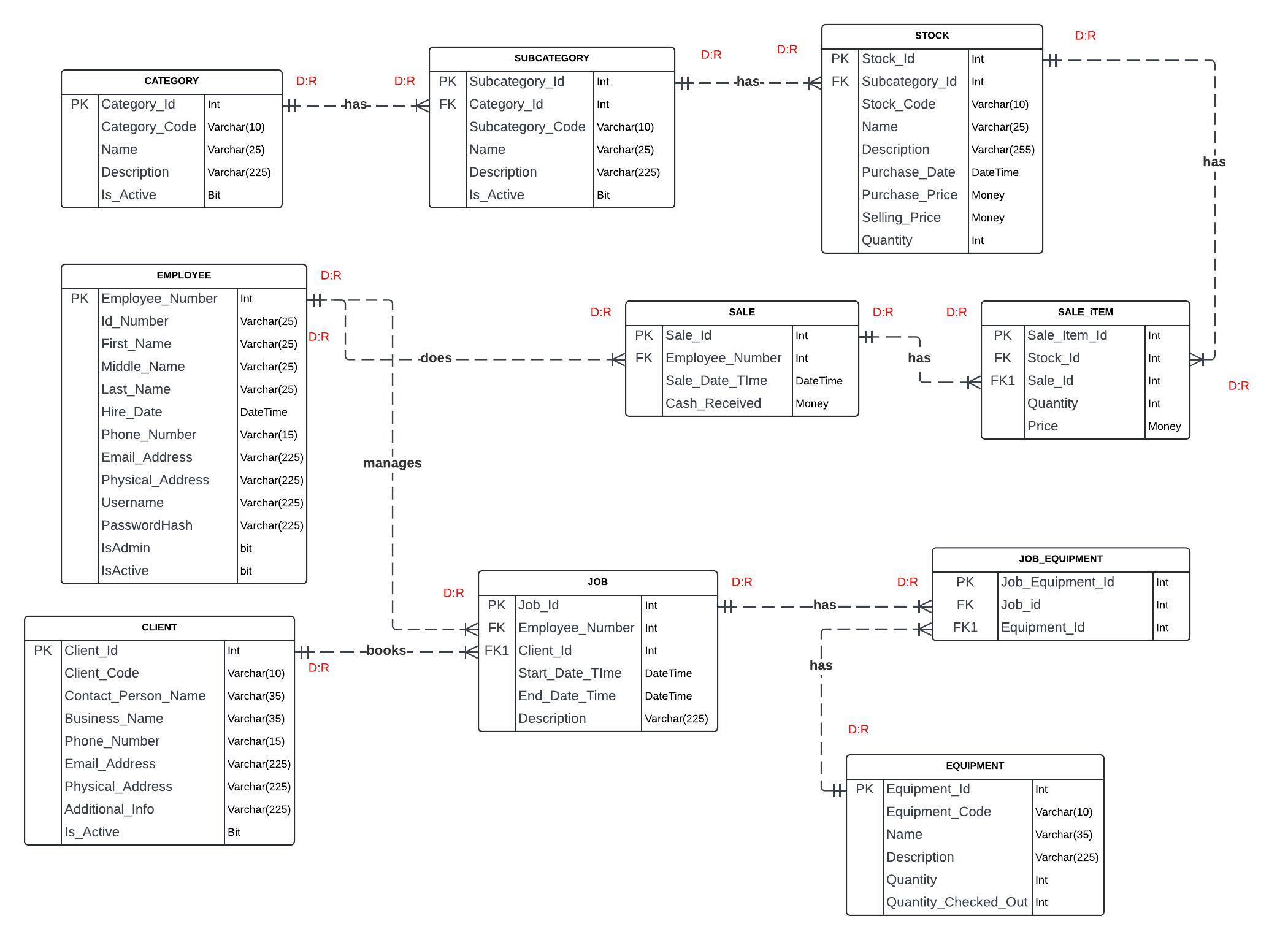
# **Documents (Uploaded with this document)**

* Declaration against plagiarism
  + 2024\_Group\_9\_Plagiaatverklaring.pdf
* SQL Code
  + 2024\_Group\_9\_SQL.sql

# **Scope**

* The system must include functionality for the following:
* Maintenance of stock (inventory)
* Maintenance of category (lights, switches)
* Maintenance of subcategory (light white, light yellow)
* Maintenance of employees
* Maintenance of equipment
* Maintenance of clients
* Maintenance of jobs
* Selling of stock
* Detailed reporting, including job reports , equipment tracking and Inventory tracking.

# **Physical Data Model**



# **Physical Process Model**

## Shop Assistant Process Flow

A diagram of a computer flowchart

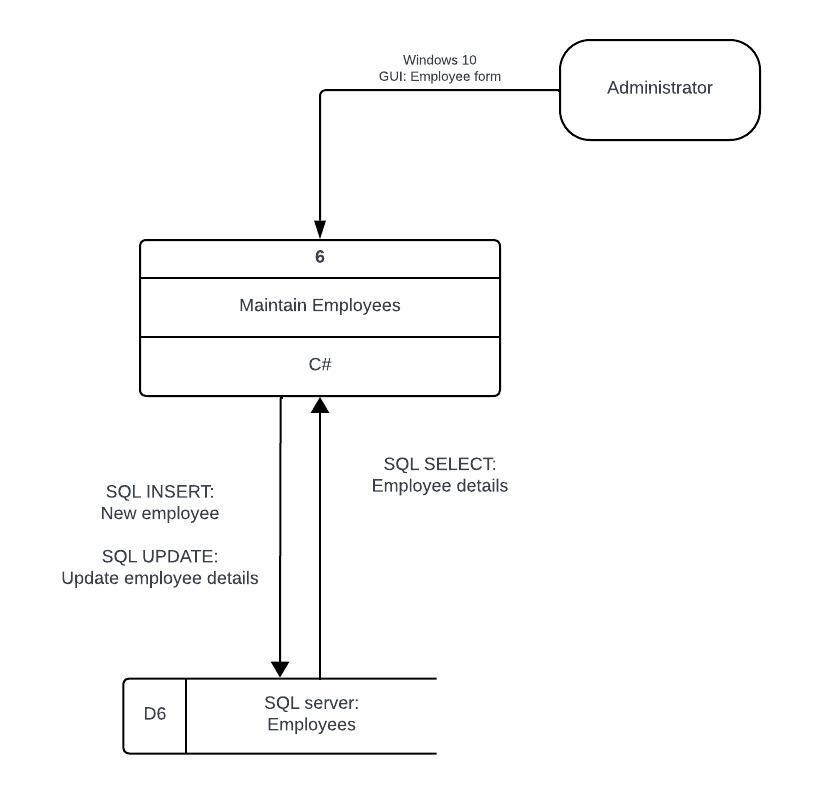
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## Job Process Flow

A diagram of a computer flowchart

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## Employee Process Flow



## Sales Process Flow

A diagram of a rectangular object

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## Entity Relationship Diagram (ERD)

A diagram of a software application

Description automatically generated with medium confidence

## SQL Code

Attached to assignment – Due to the size (2081 lines) of the sql code written we can’t add it into the word document.

# **Programming Code**

## Maintain Entity



## Code Reusability

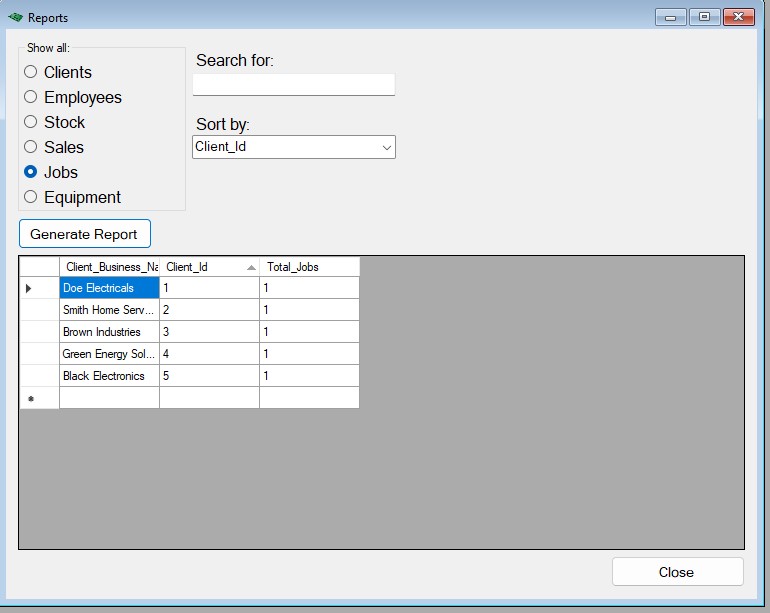
A screenshot of a computer

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# **Reports**

## Jobs



## Stock

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# **User Manual**

### Technical Hardware Requirements:

* **Operating System**: 64-bit Windows OS, Version 10.0.22635 or higher.
* **Processor**: Intel Core i5 or equivalent.
* **Memory**: Minimum 8 GB RAM.
* **Storage**: Minimum 250 GB of available disk space.
* **Database**: Microsoft SQL Server (version compatible with the application, preferably SQL Server 2019 or later).
* **Graphics**: Standard VGA or higher.

Ensure that the hardware configuration meets or exceeds these requirements for optimal performance of the Windows Forms application and SQL Server database.

### How to Set Up the Project

* Step 1: Install Visual Studio

Ensure you have Visual Studio 2019 or higher installed. During installation, select the ".NET desktop development" workload.

* Step 2: Open the Solution

Open Visual Studio.

Go to File > Open > Project/Solution.

Browse to the folder containing the InterElectron\_Project.sln file and select it.

* Step 3: Configure the Build

By default, the solution is configured to build for Any CPU (32-bit or 64-bit systems).

You can select the desired configuration (Debug or Release) from the toolbar:

Debug: For development and debugging purposes.

Release: For optimized performance during deployment.

* Step 4: Build the Solution

Once the solution is loaded, build the solution by selecting Build > Build Solution from the menu or pressing Ctrl+Shift+B.

Check the Output Window to confirm that the build succeeded. Any errors or warnings will be displayed here.

### Running the Application

**Debug Mode**

Set the solution configuration to Debug.

Click the Start Debugging button or press F5.

The application will launch, and you can interact with it while viewing debugging information in Visual Studio.

**Release Mode**

Set the solution configuration to Release.

Build the solution again to ensure all optimizations are applied.

The output can be deployed or packaged as necessary for production environments.

**Troubleshooting**

Common Build Issues

Missing .NET SDK: Ensure that you have the appropriate version of the .NET SDK installed.

Version Mismatch: If Visual Studio gives a version error, ensure you're using Visual Studio 2019 (Version 17.9) or later.

Permissions: Ensure you have the correct permissions to access all the project files, especially in corporate or restricted environments.

# **Project Plan**

## Schedule

A screenshot of a spreadsheet

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## GitHub Commits

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